

PCT10

## RAW SEQUENCE LISTING

DATE: 01/14/2002

PATENT APPLICATION: US/10/009,328

TIME: 12:02:15

Input Set : A:\ippf0709usn.app.txt

Output Set: N:\CRF3\01142002\J009328.raw

**ENTERED**

5 <110> APPLICANT: INCYTE GENOMICS, INC.  
 6 LAL, Preeti  
 7 YANG, Junming  
 8 YUE, Henry  
 9 HILLMAN, Jennifer L.  
 10 TANG, Y. Tom  
 11 BANDMAN, Olga  
 12 BURFORD, Neil  
 13 BAUGHN, Mariah R.  
 14 AZIMZAI, Yalda  
 15 LU, Dyung Aina M.  
 16 AU-YOUNG, Janice  
 17 PATTERSON, Chandra  
 19 <120> TITLE OF INVENTION: HUMAN TRANSPORT PROTEINS  
 21 <130> FILE REFERENCE: PF-0709 PCT  
 C--> 23 <140> CURRENT APPLICATION NUMBER: US/10/009,328  
 C--> 24 <141> CURRENT FILING DATE: 2001-12-04  
 26 <150> PRIOR APPLICATION NUMBER: 60/139,923; 60/148,177; 60/149,357; 60/162,287  
 W--> 27 <151> PRIOR FILING DATE: 1999-06-17; 1999-08-10; 1999-08-18; 1999-10-28  
 29 <160> NUMBER OF SEQ ID NOS: 86  
 30 <170> SOFTWARE: PERL Program  
 32 <210> SEQ ID NO: 1  
 33 <211> LENGTH: 623  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Homo sapiens  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: misc\_feature  
 39 <223> OTHER INFORMATION: Incyte ID No: 264114CD1  
 41 <400> SEQUENCE: 1  
 42 Met Ser Thr Gln Asp Glu Arg Gln Ile Asn Thr Glu Tyr Ala Val  
 43 1 5 10 15  
 44 Ser Leu Leu Glu Gln Leu Lys Leu Phe Tyr Glu Gln Gln Leu Phe  
 45 20 25 30  
 46 Thr Asp Ile Val Leu Ile Val Glu Gly Thr Glu Phe Pro Cys His  
 47 35 40 45  
 48 Lys Met Val Leu Ala Thr Cys Ser Ser Tyr Phe Arg Ala Met Phe  
 49 50 55 60  
 50 Met Ser Gly Leu Ser Glu Ser Lys Gln Thr His Val His Leu Arg  
 51 65 70 75  
 52 Asn Val Asp Ala Ala Thr Leu Gln Ile Ile Thr Tyr Ala Tyr  
 53 80 85 90  
 54 Thr Gly Asn Leu Ala Met Asn Asp Ser Thr Val Glu Gln Leu Tyr  
 55 95 100 105  
 56 Glu Thr Ala Cys Phe Leu Gln Val Glu Asp Val Leu Gln Arg Cys  
 57 110 115 120  
 58 Arg Glu Tyr Leu Ile Lys Lys Ile Asn Ala Glu Asn Cys Val Arg  
 59 125 130 135

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```

60 Leu Leu Ser Phe Ala Asp Leu Phe Ser Cys Glu Glu Leu Lys Gln
61      140      145      150
62 Ser Ala Lys Arg Met Val Glu His Lys Phe Thr Ala Val Tyr His
63      155      160      165
64 Gln Asp Ala Phe Met Gln Leu Ser His Asp Leu Leu Ile Asp Ile
65      170      175      180
66 Leu Ser Ser Asp Asn Leu Asn Val Glu Lys Glu Glu Thr Val Arg
67      185      190      195
68 Glu Ala Ala Met Leu Trp Leu Glu Tyr Asn Thr Glu Ser Arg Ser
69      200      205      210
70 Gln Tyr Leu Ser Ser Val Leu Ser Gln Ile Arg Ile Asp Ala Leu
71      215      220      225
72 Ser Glu Val Thr Gln Arg Ala Trp Phe Gln Gly Leu Pro Pro Asn
73      230      235      240
74 Asp Lys Ser Val Val Val Gln Gly Leu Tyr Lys Ser Met Pro Lys
75      245      250      255
76 Phe Phe Lys Pro Arg Leu Gly Met Thr Lys Glu Glu Met Met Ile
77      260      265      270
78 Phe Ile Glu Ala Ser Ser Glu Asn Pro Cys Ser Leu Tyr Ser Ser
79      275      280      285
80 Val Cys Tyr Ser Pro Gln Ala Glu Lys Val Tyr Lys Leu Cys Ser
81      290      295      300
82 Pro Pro Ala Asp Leu His Lys Val Gly Thr Val Val Thr Pro Asp
83      305      310      315
84 Asn Asp Ile Tyr Ile Ala Gly Gly Gln Val Pro Leu Lys Asn Thr
85      320      325      330
86 Lys Thr Asn His Ser Lys Thr Ser Lys Leu Gln Thr Ala Phe Arg
87      335      340      345
88 Thr Val Asn Cys Phe Tyr Trp Phe Asp Ala Gln Gln Asn Thr Trp
89      350      355      360
90 Phe Pro Lys Thr Pro Met Leu Phe Val Arg Ile Lys Pro Ser Leu
91      365      370      375
92 Val Cys Cys Glu Gly Tyr Ile Tyr Ala Ile Gly Gly Asp Ser Val
93      380      385      390
94 Gly Gly Glu Leu Asn Arg Arg Thr Val Glu Arg Tyr Asp Thr Glu
95      395      400      405
96 Lys Asp Glu Trp Thr Met Val Ser Pro Leu Pro Cys Ala Trp Gln
97      410      415      420
98 Trp Ser Ala Ala Val Val Val His Asp Cys Ile Tyr Val Met Thr
99      425      430      435
100 Leu Asn Leu Met Tyr Cys Tyr Phe Pro Arg Ser Asp Ser Trp Val
101      440      445      450
102 Glu Met Ala Met Arg Gln Thr Ser Arg Ser Phe Ala Ser Ala Ala
103      455      460      465
104 Ala Phe Gly Asp Lys Ile Phe Tyr Ile Gly Gly Leu His Ile Ala
105      470      475      480
106 Thr Asn Ser Gly Ile Arg Leu Pro Ser Gly Thr Val Asp Gly Ser
107      485      490      495
108 Ser Val Thr Val Glu Ile Tyr Asp Val Asn Lys Asn Glu Trp Lys

```

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```

109      . 500      505      510
110 Met Ala Ala Asn Ile Pro Ala Lys Arg Tyr Ser Asp Pro Cys Val
111      515      520      525
112 Arg Ala Val Val Ile Ser Asn Ser Leu Cys Val Phe Met Arg Glu
113      530      535      540
114 Thr His Leu Asn Glu Arg Ala Lys Tyr Val Thr Tyr Gln Tyr Asp
115      545      550      555
116 Leu Glu Leu Asp Arg Trp Ser Leu Arg Gln His Ile Ser Glu Arg
117      560      565      570
118 Val Leu Trp Asp Leu Gly Arg Asp Phe Arg Cys Thr Val Gly Lys
119      575      580      585
120 Leu Tyr Pro Ser Cys Leu Glu Glu Ser Pro Trp Lys Pro Pro Thr
121      590      595      600
122 Tyr Leu Phe Ser Thr Asp Gly Thr Glu Glu Phe Glu Leu Asp Gly
123      605      610      615
124 Glu Met Val Ala Leu Pro Pro Val
125      620
126 <210> SEQ ID NO: 2
127 <211> LENGTH: 99
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <223> OTHER INFORMATION: Incyte ID No: 1455669CD1
135 <400> SEQUENCE: 2
136 Met Ala Ala Pro Ala Glu Pro Cys Ala Gly Gln Gly Val Trp Asn
137 1      5      10      15
138 Gln Thr Glu Pro Glu Pro Ala Ala Thr Ser Leu Leu Ser Leu Cys
139      20      25      30
140 Phe Leu Arg Thr Ala Gly Val Trp Val Pro Pro Met Tyr Leu Trp
141      35      40      45
142 Val Leu Gly Pro Ile Tyr Leu Leu Phe Ile His His His Gly Arg
143      50      55      60
144 Gly Tyr Leu Arg Met Ser Pro Leu Phe Lys Ala Lys Met Val Ala
145      65      70      75
146 Ala Ile Pro Gly Ser Leu Glu Pro Gly Asn Val Arg Gly Arg Gln
147      80      85      90
148 Gly Thr Gly Trp Asn Leu Val Lys Ser
149      95
150 <210> SEQ ID NO: 3
151 <211> LENGTH: 374
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <223> OTHER INFORMATION: Incyte ID No: 2084989CD1
159 <400> SEQUENCE: 3
160 Met Glu Ser Lys Met Gly Glu Leu Pro Leu Asp Ile Asn Ile Gln
161 1      5      10      15

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```

162 Glu Pro Arg Trp Asp Gln Ser Thr Phe Leu Gly Arg Ala Arg His
163          20          25          30
164 Phe Phe Thr Val Thr Asp Pro Arg Asn Leu Leu Leu Ser Gly Ala
165          35          40          45
166 Gln Leu Glu Ala Ser Arg Asn Ile Val Gln Asn Tyr Arg Ala Gly
167          50          55          60
168 Val Val Thr Pro Gly Ile Thr Glu Asp Gln Leu Trp Arg Ala Lys
169          65          70          75
170 Tyr Val Tyr Asp Ser Ala Phe His Pro Asp Thr Gly Glu Lys Val
171          80          85          90
172 Val Leu Ile Gly Arg Met Ser Ala Gln Val Pro Met Asn Met Thr
173          95         100         105
174 Ile Thr Gly Cys Met Leu Thr Phe Tyr Arg Lys Thr Pro Thr Val
175         110         115         120
176 Val Phe Trp Gln Trp Val Asn Gln Ser Phe Asn Ala Ile Val Asn
177         125         130         135
178 Tyr Ser Asn Arg Ser Gly Asp Thr Pro Ile Thr Val Arg Gln Leu
179         140         145         150
180 Gly Thr Ala Tyr Val Ser Ala Thr Thr Gly Ala Val Ala Thr Ala
181         155         160         165
182 Leu Gly Leu Lys Ser Leu Thr Lys His Leu Pro Pro Leu Val Gly
183         170         175         180
184 Arg Phe Val Pro Phe Ala Ala Val Ala Ala Ala Asn Cys Ile Asn
185         185         190         195
186 Ile Pro Leu Met Arg Gln Arg Glu Leu Gln Val Gly Ile Pro Val
187         200         205         210
188 Ala Asp Glu Ala Gly Gln Arg Leu Gly Tyr Ser Val Thr Ala Ala
189         215         220         225
190 Lys Gln Gly Ile Phe Gln Val Val Ile Ser Arg Ile Cys Met Ala
191         230         235         240
192 Ile Pro Ala Met Ala Ile Pro Pro Leu Ile Met Asp Thr Leu Glu
193         245         250         255
194 Lys Lys Asp Phe Leu Lys Val Gly Asp Cys Thr Ser Leu Val Leu
195         260         265         270
196 Glu Trp Ala Met Ala Gly Arg Ser Asp Gln Ala Pro Thr Leu Ser
197         275         280         285
198 Pro Ala Ser Pro Asp Ser Leu Arg Leu Ala Ser Pro Ser Pro Asp
199         290         295         300
200 Pro Cys Thr Ala Ser Ser Thr Phe Val His Ser Ala Arg Met Asn
201         305         310         315
202 Trp Ala Gly Val Lys Glu Leu Cys Arg Gly Arg Arg Arg Gly Gln
203         320         325         330
204 Arg Lys Glu Thr Asn Phe Ile Ser Val Thr Pro Val Ala Ser Asp
205         335         340         345
206 Thr Gln Lys Gly Thr Val Ile Val Met Leu Asp Leu Met Leu Ile
207         350         355         360
208 Leu Leu Pro Pro Ser Ala Ser Ile Leu Arg Gly Thr His Gly
209         365         370
210 <210> SEQ ID NO: 4

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DATE: 01/14/2002

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TIME: 12:02:15

Input Set : A:\ippf0709usn.app.txt

Output Set: N:\CRF3\01142002\J009328.raw

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211 <211> LENGTH: 271
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <223> OTHER INFORMATION: Incyte ID No: 2501034CD1
219 <400> SEQUENCE: 4
220 Met Gly Asn Gly Gly Arg Ser Gly Leu Gln Gln Gly Lys Gly Asn
221   1           5           10           15
222 Val Asp Gly Val Ala Ala Thr Pro Thr Ala Ala Ser Ala Ser Cys
223           20           25           30
224 Gln Tyr Arg Cys Ile Glu Cys Asn Gln Glu Ala Lys Glu Leu Tyr
225           35           40           45
226 Arg Asp Tyr Asn His Gly Val Leu Lys Ile Thr Ile Cys Lys Ser
227           50           55           60
228 Cys Gln Lys Pro Val Asp Lys Tyr Ile Glu Tyr Asp Pro Val Ile
229           65           70           75
230 Ile Leu Ile Asn Ala Ile Leu Cys Lys Ala Gln Ala Tyr Arg His
231           80           85           90
232 Ile Leu Phe Asn Thr Gln Ile Asn Ile His Gly Lys Leu Cys Ile
233           95          100          105
234 Phe Cys Leu Leu Cys Glu Ala Tyr Leu Arg Trp Trp Gln Leu Gln
235          110          115          120
236 Asp Ser Asn Gln Asn Thr Ala Pro Asp Asp Leu Ile Arg Tyr Ala
237          125          130          135
238 Lys Glu Trp Asp Phe Tyr Arg Met Phe Ala Ile Ala Ala Leu Glu
239          140          145          150
240 Gln Thr Ala Tyr Phe Ile Gly Ile Phe Thr Phe Leu Trp Val Glu
241          155          160          165
242 Arg Pro Met Thr Ala Lys Lys Lys Pro Asn Phe Ile Leu Leu Leu
243          170          175          180
244 Lys Ala Leu Leu Leu Ser Ser Tyr Gly Lys Leu Leu Leu Ile Pro
245          185          190          195
246 Ala Val Ile Trp Glu His Asp Tyr Thr Ser Val Cys Leu Lys Leu
247          200          205          210
248 Ile Lys Val Phe Val Leu Thr Ser Asn Phe Gln Ala Ile Arg Val
249          215          220          225
250 Thr Leu Asn Ile Asn Arg Lys Leu Ser Phe Leu Ala Val Leu Ser
251          230          235          240
252 Gly Leu Leu Leu Glu Ser Ile Met Val Tyr Phe Phe Gln Ser Met
253          245          250          255
254 Glu Trp Asp Val Gly Ser Asp Tyr Ala Ile Phe Lys Ser Gln Asp
255          260          265          270
256 Phe
258 <210> SEQ ID NO: 5
259 <211> LENGTH: 323
260 <212> TYPE: PRT
261 <213> ORGANISM: Homo sapiens
263 <220> FEATURE:

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## VERIFICATION SUMMARY

DATE: 01/14/2002

PATENT APPLICATION: US/10/009,328

TIME: 12:02:16

Input Set : A:\ippf0709usn.app.txt

Output Set: N:\CRF3\01142002\J009328.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application Number

L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:27 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD